

MICROCOPY RESOLUTION TEST CHART NATIONAL BUREAU OF STANDARDS-1963-A



DR-1351 Jul 84

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METEOROLOGICAL DATA REPORT

19320A MLRS
Missile Number V-6148, V-6149, V-6150, V-6151, V-6163, V-6169, V-6160, V-6161, V-6164
Round Number V618/AT2-75 thru V626/AT2-83
12 July 1984

by

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ATMOSPHERIC SCIENCES LABORATORY WHITE SANDS MISSILE RANGE, NEW MEXICO



ECOM

UNITED STATES ARMY ELECTRONICS COMMAND

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White Sands Meteorological	Team	DA Task 1F665702D127-02
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Meteorological data gathered for launching of the 19320A MLRS, Missile Number V-6148, V-6149, V-6150, V-6151, V-6163, V-6169, V-6160, V-6161, V-6164 Round Number V618/AT2-75 thru V626/AT2-83 are presented in tabular form.

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INTRODUCTION

19320A MLRS, Missile Numbers V-6148, V-6149, V-6150, V-6151, V-6163, V-6169, V-6160 V-6161, and V-6164, Round Numbers V618/AT2-75 thru V626/AT2-83, were launched from LC-33 White Sands Missile Range (WSMR). New Mexico, at 1400:29, 1400:34, 1400:39, 1400:44, 1400:49, 1400:54, 1445:06, 1445:11 and 1445:16 MDT, 12 Jul 84. The scheduled launch times were 1400(6T's and 1445(3T's) MDT with a 4.5 second separation.

Meteorological data were recorded and reduced by the White Sands Meteorological Team, Atmospheric Sciences Laboratory (ASL), White Sands Missile Range, New Mexico. The data were were obtained by the following methods:

1. Observations

a. Surface

- (1) Standard surface observations to include pressure, temperature (°C), relative humidity, dew point (°C), density (gm/m^3) , wind direction and spped, and cloud cover were made at the LC-33 Met Site at T-0 minutes.
- (2) Anemometer data were provided from existing pole-mounted and tower-mounted anemometers at LC-33. Monitor of wind speed and direction form one anemometer was also provided in the launch control room.

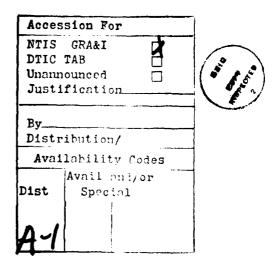
b. Upper Air

(1) Low level wind data were obtained from pilot-balloon observations at:

SITE AND ALTITUDE LC-33 2 km SMR 2 km

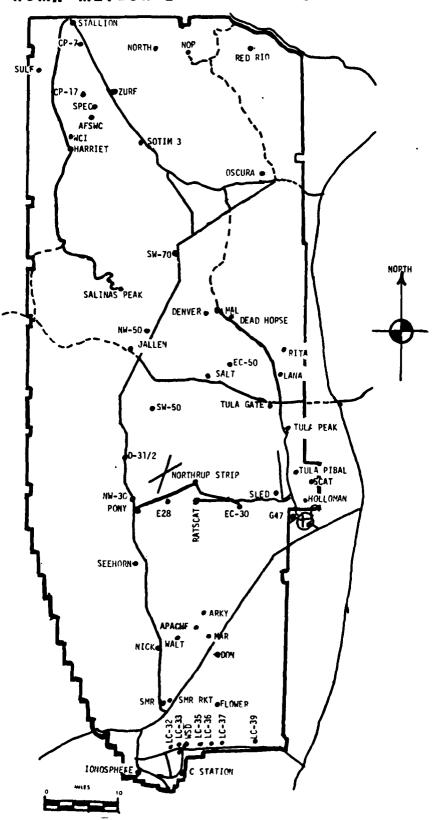
(2) Air structure data (rawinsonde) were collected at the following Met Sites.

211F	ANU	IME
WSD	1045	MDT
WSD	1215	MDT
SMR	1245	MDT
WSD	1400	MDT
SMR	1445	MDT



1

WSMR METEOROLOGICAL SITES



PPOJECT SUBFACE OBSERVATION

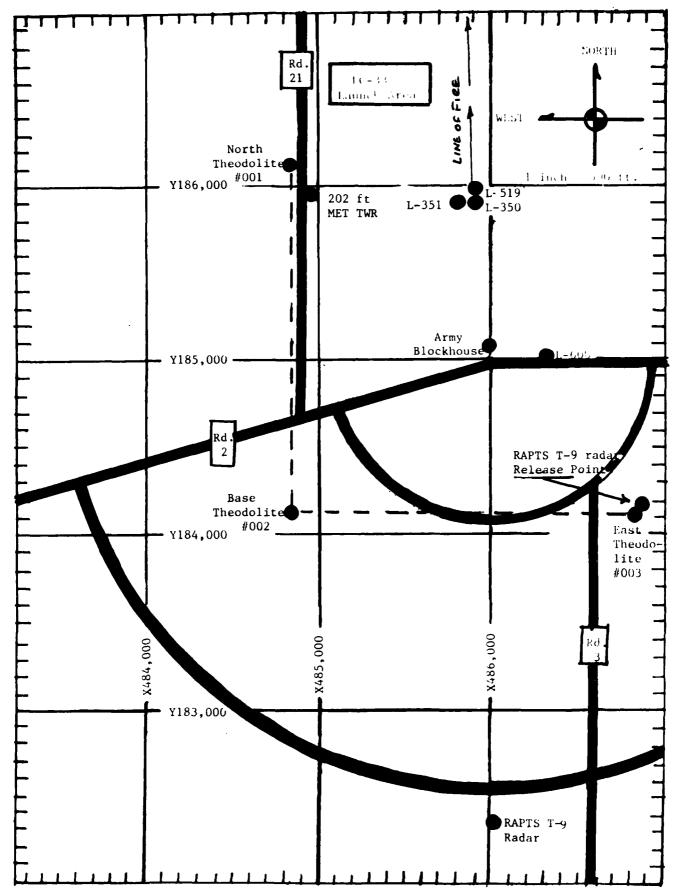
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PSYCHROMETRIC COMPUTATION
MDT | 1400 | 1445 |

TIME: MDT	1400	1445	
DRY SULB TEP.	28.7	30.2	
WET BULB TEMP.	21.2	20.8	
WET BULB DEPR.	7.5	9.4	
DEW POINT	18.2	17.2	
PELATIVE HUMID.	53	46	



LC-33 METEOROLOGICAL TOWER ANEMOMETER MEASURED WIND DATA

WSTM COOORDINATES X=484,982.64 Y=185,957.73 H=3983.00(BASE)

TABLE NO. $\frac{2}{}$

DATE 12 DAY		1984 1400 <u>M</u> EAR TIME	<u>D</u> <u>T</u>		
LEVEL #1		12 FT AGL	LEVEL #2		62 FT AGL
T-TIME (SEC)	DIR (DEG)	SPEED (KTS)	T-TIME (SEC)	DIR (DEG)	SPEED (KTS)
T-30	313	08	T-30	305	08
т-20	317	04	T-20	316	10
T-10	315	08	T-10	314	10
T- 0(1st T)	315	08	T- 0(1st T)	314	09
T+10	323	08	T+10	314	09
T+20	313	08	T+20	315	09
T+30	318	07	T +30	317	09
T+40			T+40		
T+50			T+50		
T+60			T+60		
LEVEL #3		102 FT AGL	LEVEL #4		202 FT AGL
T-TIME (SEC)	DIR (DEG)	SPEED (KTS)	T-TIME (SEC)	DIR (DEG)	SPEED (KTS)
T-30	307	09	T-30	306	08
Y-20	303	10	T-20 ·	289	10
T-10	309	10	T-10	295	12
T- 0 (1st T)	309	10	T- 0(1st T)	304	11
T+10	314	09	T+10	305	10
T+20	315	10	T+20	305	13
T+30	312	12	T+30	297	12
T+40			T+40		
T+50	_		T+50		
T+60			T+60		

LC-33 METEOROLOGICAL TOWER ANEMOMETER MEASURED WIND DATA

WSTM COOORDINATES X=484,982.64 Y=185,957.73 H=3983.00(BASE)

TABLE NO.	3				
DATE 12	J	1984 M	<u>D</u> <u>T</u>		
LEVEL #1		12 FT AGL	11		62 FT AGL
T-TIME (SEC)	DIR (DEG)	SPEED (KTS)	T-TIME (SEC)	DIR(DEG)	SPEED (KTS)
T-30	296	06	т-30	299	05
T-20	296	04	T-20	299	04
T-10	296	01	T-10	299	04
T- 0(1st T)	281	03	T- 0(1st T)	299	04
T+10	292	U2	T+10	299	03
T+20	278	00	T+20	299	02
T+30	278	00	T+30	299	02
T+40	•		T+40		
T+50			T+50		
T+60	 		T +60		
LEVEL #3		102 FT AGL	LEVEL #4		202 FT AGL
T-TIME (SEC)	DIR (DEG)	SPEED (KTS)	T-TIME (SEC)	DIR (DEG)	SPEED (KTS)
T-30	285	06	T-30	290	06
T-20	285	06	T-20	286	07
T-10	281	05	T-10	290	07
T- 0 (1st T)	288	05	T- 0(1st T)	302	06
T+10	289	04	T+10	306	05
<u>T+20</u>	285	04	T+20	398	04
T+30	283	03	T+30	314	04
T+40			T+40		
T+50			T+50		1
		 	 		

T-TIME PILOT-BALLOON MEASURED WIND DATA

DATE 12 July 1984

SITE: LC-33

TIME: 1400 MDT

WSTM COORDINATES:

£= 486,037.24

Y = 182,350.16

H= 3,977.30

SITE: SMR

TIME 1400 MDT

WSTM COORDINATES:

X= 472,444.85

Y = 213,781.96

H= 4,000.99

LAYER MIDPOINT	DIRECTION	SPEED	LAYER MIDPOINT	DIRECTION	SPEED
METERS AGL	DEGREES	KNOTS	METERS AGL	DEGREES	KNOTS
SURFACE	330	06	SURFACE		CALM
150	319	07	150	274	01
210	308	80	210	236	03
270	310	09	270	275	04
330	283	05	330	216	09
390	295	06	390	174	03
50 0	023	03	500	139	03
650	103	06	650	126	80
800	092	12	300	129	10
950	104	10	950	128	12
1150	097	12	1150	132	11
1350	109	12	1350	133	16
1550	105	17	1550	134	16
1750	109	18	1750	135	18
2000	108	18	2000	134	16

All data obtained from RAPTS T-9 Radar tracked pilot-balloon observations.

T-TIME PILOT-BALLOON MEASURED WIND DATA

DATE 12 July 1984

SITE: LC-33

TIME: 1445 MDT

WSTM COORDINATES:

X = 486,037.24

Y = 182,350.16

H=3,977.30

SITE: SMR

TIME 1445 MDT

WSTM COORDINATES:

x = 472,444.85

 $\gamma = 213,781.96$

H= 4,000.99

LAYER MIDPOINT	DIRECTION	SPEED	LAYER MIDPOINT	DIRECTION	SPEED
METERS AGL	DEGREES	KNOTS	METERS AGL	DEGREES	KNOTS
SURFACE		CALM	SURFACE	150	04
150		CALM	150	070	02
210	162	02	210	105	02
270	188	01	270	137	03
330	208	02	330	122	05
390	210	02	390	126	06
500	040	80	500	116	05
650	024	80	650	116	05
300	059	11	800	093	07
950	060	10	950	094	11
1150	072	14	1150	093	80
1350	083	19	1350	112	10
1550	092	16	1550	115	16
1750	189	14	1750	123	15
2000	102	16	2000	124	13

All data obtained from RAPTS T-9 Radar Tracked Pilot-Balloon Observations.

AIMING AND T-TIME COMPUTER MET MESSAGE DATA 12 July 1984

WSD 1045 MDT	WSD 1215	MDT	SMR 1245 M	1DT
METCM1324064	METCM1324	064	METCM13250	064
121680122881	121830122	880	1218801228	
00044004 2987088	31 00587001	30250880	00240002	30480880
01070005 298508	01552006	30070870	01226003	30189870
02141005 297408		29850846	02252006	29890846
03164007 2940080		29520808	03196008	29560808
04191012 289807		29060762	04198019	29160762
05192014 285707		28660719	05202019	28700719
06191015 282206		28280677	06208016	28280677
07193014 279206		27880637	07169011	27880637
08185012 275705		27630599	08141013	27600599
09190015 272805	09204013	27330563	09152012	27310563
10193016 270605	10212019	26950529	10185014	27100529
11142010 266804		26570496	11214014	26820497
12178005 261004		26320450	12206006	26320451

MDT	SMR 145 MDT
	METCM1325064
879	122080122879
29920879	00267004 30440879
30160869	01183001 30260869
30060845	02213004 29960845
29750807	03177009 29520807
29300762	04210013 29080761
28800719	05225013 28590718
28350677	06237011 28160676
28000637	07221011 27810636
27700599	08172008 27510598
27340563	09225010 27220562
27030529	10271009 26900527
26750497	11209010 26620495
26330451	12198008 26190449
	29920879 30160869 30060845 29750807 29300762 28800719 28350677 28000637 27700599 27340563 27030529 26750497

STATION ALTITUDE 3989.00 FECT MSL 12 JULY 84 ASCENSION NO. 372

SIGNIFICANT LEVEL DATA 1940020372 WHITE SANDS

GEODETIC COORDINATES 32.40043 LAT DEG 106.37033 LON DEG

9

PRESSURE GEOMETRIC TEMPERATURE REL-HUM.

ALTITUDE AIR DEWPOINT PERCENT

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853.2 4571.9 22.9 16.0 65.0

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12 JULY 84 ASCENSION NO. 372 1045 MJT	WHITE SAN

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GEODETIC COORDINATES 32.40043 LAT DEG 106.37033 LON DEG

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DATA INDEX IN SPEED OF IN KNOTS REFRACTION	4.1 1.0003 4.1 1.0003	4.4 1.0002	5.3 1.0002	7.5	8.4 1.0002	9.3 1.0002	11.8 1.000	13.0 1.0002	14.0 1.0002	15.0 1.0002	15.3 1.0002	15.6 1.000 15.5 1.000	2000-1 8-71	14.1 1.0002	13.6 1.0002	13.1 1.0002	12.7 1.0002	13.1 1.0002	13.5 1.000	13.7 1.0001	13.9 1.0001	14.0	15.8 1.0001	13.6 1.000	13.3 1.0001	12.6 1.0001	11.9 1.0001	11.2 1.0001	10.2 1.000	9.1 1.0601	7.8 1.0001	6.2 1.00	1.0001	1,0001	
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. DENSITY GM/CUBIC METER	1027-	400	200	o 50	5	30	~ 0	76	82	20	2	3 1	2 0	90	0	83	21	2	8 7	34	56	15	0	œ	11	73	5	80	80	28	19	_	5	ç	١
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GEOMETRIC Altitude Msl feet	3989.0 4090.0	000	200	500.	000	500	500.	000	500.	0000	0200	000	7000	2500.	3000.	3500.	.0005	4500.	\$000°	5500.	•000g	6500.	7000-	7500.	8000	8500.	9000	9500.	.0000	0200	1000.	1500.	2000.	2500.	•

GEODETIC COORDINATES 32.40043 LAT DEG 106.37033 LON DEG	INDEX OF Refraction	1.000130 1.000128 1.000125
GEODETI 32. 106.	SPEED KNOTS	
	WIND DATA DIRECTION SPEED DEGREES(TN) KNOTS	
ont'd		575.6 624.5 567.1 622.9 556.9 622.2
UPPER AIR DATA 1940020372 WHITE SANDS TABLE 8 CONT'd	PER'ENT GM/CUBIC SOUND METER KNOTS	575.6 567.1 556.9
э '	REL' HUM. Peri ent	20: 9 16: 7 16: 0
T MSL	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	-33.5 -36.8 -37.7
9.00 FEE 1045 M	TEMP AIR Degrees	-16.3 -17.6 -18.1
TITUDE 398 No. 372	PRESSURE MILLIBARS	424.6
STATION ALTITUDE 3989.00 FEET MSL 12 JULY 84 ASCENSION NO. 372	GEOMETRIC PRESSURE ALTITUDE MSL FEET MILLIBARS	23500.0 24000.0 24500.0

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GEODETIC COORDINATES 32,40043 LAT DEG 106,37033 LON DEG

MANDATORY LEVELS 1940020372 White Sands 6 TABLE

3811 5 3 3 G G	PRESCURE GEOPOTENTIAL	TEMI	PERATURE	REL.HUM.	ONIB	DATA
		A: R	DEWPOINT	PERCENT	DIRECTIO	N SPEED
MILLIBARS	FEET	0EG: EES	DEGI LES CENTIGRADE		DEGREES(TN) KNO	R) KNOTS
9		7 . (6	15.0	63,	67.2	4.5
J • D • D) (. (•
C. CC8		1:5	12.0	٠,٠		•
			•	0 ^	105.1	11,0
750.0		• •		•		
2002	•	0°1 :	8.3	.08	108.5	15.3
	•		,	74.	107.0	14.2
3.000		9.		•		
0.004	•	5.7	1.2	98.	106.3	13.1
				•	404.8	14.0
550.0	•) i	C • L •	• 0 ^		
000	·	•	6.8	83.	103.1	11.6
		•		. 1	4	•
450.0	1 22020.	-1 4	-25.3	33.	× × ×	•
7 007			-38.0	16.		
	_	•	1			

STATION ALTITUDE 3989, CO FEET MSE 12 JULY 84 ASCENSION NO. 373 1215 MDT

SIGNIFICANT LEVEL DATA 1940G20373 WHITE SANDS

GEODETIC COORDINATES 32,40043 LAT DEG 106,37033 LON DEG

TABLE 10

PRESSURE	GEOMETR	EMPERAT	œ	EL. HU
	ALTITUDE	IR DEV	POINT	PERCENT
MILLIBARS	MSL FEE	EES CEN	1 G R	
60.	989.		•	m
61.	610.	m	•	;
50.	.000	•	•	•
24.	880.	:	•	~
91.	033.	8	•	ň
26.	-077	?	•	-
16.	800.	:	•	,
00	.6770	0	6.9	
67.	1767.	•	•	.
51.	2423.	٠	•	Š
38	2932.	•	•	÷
30.	3303.	0.	•	?
23.	3581.	٥	•	;
06.	4324.	•	•	æ
85.	5279.	•	•	,
. 62	5524.		•	\$
62.	6320.		?	4.
9.238	258		-6.3	82.0
33.	7678.	4.3	\$	٠ د
54.	8150.		•	\$
16.	8559.	2.8	•	
60	8895.	7.0	•	•
00	9373.		٠	\$
79.	0437.	∞.	\$	ċ
69	9966	8.6	÷	\$
55.	1741.	8.8	•	ŝ
33.	3035.	2.2	•	•
•	5016.	9.	÷	٠

STATION AL 12 JULY 84 ASCENSIGN	LT1TUDE 398 4 No. 373	89.00 FEE	DT MSL	-	UPPER AIR 194002031 WHITE SAN	0 5 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4		GEODETI 32• 106•	C COORDINATES 40043 LAT DEG 37033 LON DEG
GEOMETRIC Altitude MSL feet	PRESSURE MILLIBARS	TEMP A1R Degrees	PERATURE Dewpoint Centigrade	REL'HUM. Perient	DENSITY GM/CUBIC METER	SPEED OF Sound Knots	WIND DA DIRECTION DEGREES(TN)	TA SPEED KNOTS	INDEX Of Refraction
0 8 0	0	7	4	,:	013.	77.	50.5	1.0	.00030
000		. •	; ;	'n	7	77.	, .	•	.00030
500.	64.	3	4.	ň	000	74.	63.		.00029
000	50.	ň	,	÷	90.	73.	•	•	•2000•
500.	35.	۲.	'n	ö	77.	72.	ċ	•	.00028
0.0009	820.8	21.4	12.7	57.6	1.796	6.009	82.1	6	1.000279
200	90	ċ	۲.	ŏ	52.	69	'n.	-	.2000-
000	95	œ (: ,	Ž.	0,	29	.	2 -	97000
200	8	٠,	ċ	ö	8	65	96	'n.	97000.
000	964.	<u>.</u>	ċ	ð.	16.	64.		;	.00026
200		•	•	3 1	ŝ	;	90	٠,	57000
000	37.	'n,	•	÷ (91	. 61		•	\$2000
200	, , ,	٠.	•	.	6	. 6			*7000
	<u> </u>	• .	•	;	•	, . , .	9 6		*****
2000	• • •	• •	•	à ×	? ?	5 4 4	^ *	•	22000
1500	900	• (• •	'nŏ	31.	26.	, ,	;	0000
000	6		•	à	6	53.	98.		00021
2500.	6.5			ž	07.	52.	•	ċ	.0000
3000.	37.	•	•	~	97.	. 67	\$	ċ	.00020
3500.	25.	•	2	ň	83.	66	;	ċ	.00020
.0003	13.	•	•	÷	70.	6.6	3	ċ	.00020
4500.	02.	•	•	ŏ	58.	48.	, ,	+	.00019
500n.	91.		;	;	47.	.97	÷	ň	.00019
5500.	80.	.,	;	ä	35.	45.	97.	,	.00019
6000	660	٠,	2	ň,	53	. 5	9	•	81000.
9000	9	<u>.</u>	÷.	5 ,	2 .		50	٠,	0000
	200	D 0	7.4	∵ .	• • • • • • • • • • • • • • • • • • • •	, C 7	, ,		71000
0000		•	•	, .		0 7	-	0	00017
8500	17.	, ,	•		700	9 00	- 2		.00017
9000	20		12.	:		. S	08.	9	.00016
9500	97.			Š	52.	36	03.		00015
.0000	87.	80	15.	٠	4.1.	34.	80	₩.	.00015
0000	78.	&	15.	;	29.	33.	ċ	•	.00015
1000.	.69	•	21.	š	17.	33.	9.	ċ	.00014
1500.	60.	8	20.	ž	05.	33.	.,0	•	.00014
20002	51.	6	21.	ş	95.	32.	è	•	00013
2500.	62.	ċ	24.	ž	86.	31.	60	•	.00013
3000	33.	12.	26.	à	78.	56.			.00013

GEODETIC COORDINATES 32.40043 LAT DEG 106.37033 LON DEG	INDEX Of Refraction	1.000130 1.000128 1.000125 1.000123
GEODETI 32. 106.	TA SPEED KNOTS	
	WIND DATA DIRECTION SPEED DEGREES(TN) KNOTS	
FE AIR DATA 940020373 117E SANDS	SPEED OF SOUND KNOTS	568.8 628.5 559.5 627.5 550.2 626.4 541.1 625.4
UPPER AIR DATA 1940020373 WHITE SANDS	REL'HUM. DENSITY SPEED OF PERIENT GM/CUBIC SOUND METER KNOTS	568.8 559.5 550.2
5	REL! HUM. Per: Ent	26. 6 25. 1 23. 6 22. 1
7 MSL	TEMPERATURE AIR DEWPOINT DEGREES CENTIGRADE	-288-2 -29.5 -30.9
1215 MDT	TEMP AIR Degrees	-13.9 -14.7 -15.6
11TUDE 398 No. 373	GEOMETRIC PRESSURE ALTITUDE MSL FEET MILLIBARS	425.0 416.6 408.4 400.3
STATION ALTITUDE 398 12 JULY 84 ASCENSION NO. 373	GEOMETRIC ALTITUDE MSL FEET	23500.0 24000.0 24500.0 25000.0

STATION ALTITUDE 3989.00 'CET MSL 12 JULY 84 1215 MDT ASCENSION NO. 373

MANDATORY LEVELS 1940320373 White Sands

GEODETIC COORDINATES 32,40043 LAT DEG 106,37033 LON DEG

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TABLE 12

PRESSURE	PRESSURE GFOPOTENTIAL	TEM	PERATURE	REL.HUM	. WIND DATA	ATA
	 	A: R	A: R DEWPOINT	PERCENT	DIRECTION	SPEED
MILLIBARS	FEET	DEG: EES	CENTIGRADE		DEGREES (TK)	KNOTS
0.028	7.667	25.66	14.3	56.	76.2	7.7
0.008	6726.	12	11.6	61.	86.4	12.0
750.0	8535.	10.04	6.6	74.	105.0	15.8
2007	10439.	1.8	6.9	77.	105.7	14.2
0.059	12452	6	1.9	75.	0.76	10.0
0.009	14590.	M : -	7	81.	9.76	11.6
550.0	16883.	5::-	-5.0	83.	108.4	18.2
500.0	19346.	80 	-15.2	55.	104.8	15.2
450.0	22027	9.1	-22.0	36.	106.8	6-2
4000	24974.	-1:56	-32.4	22.		

}

STATION ALTITUDE 3997.30 FEET 4SL 12 JULY 84 1245 MDT ASCENSION NO. 132

SIGNIFICANT LEVEL DATA 1940060132 S M R

GEODETIC COORDINATES 32,48034 LAT DEG 106,42307 LON DEG

S

,				
	_	_		
	5	_		
	L	٠.	j	
	L - C & F	2		
	•		•	

PRESSURE	EOME 1R	-	RATURE	REL.HUM.
•	ALTITUDE	¥	DEEFOINT	E 3 1 K 3
MILLIBARS	אר אנ) 9 K		
C	. 200	6	\$	•
•		٥		
• •	9 0	4	÷	•
• •	200		00	
• • •	7447			
) C	785	6	2.8	•
7 6	2000			<u>:</u>
• 4	1874			٠
	46.48		•	:
7	4000		•	
	777		·i	Ľ
,	4440	-		
	7760	•	Š	
, v	8205	2	-11.5	ċ
	000	~	÷	ĸ.
	7076		14.	ĸ.
	7660	8	17.	ö
0	2102	6	23.	Ň
	470R	14.	28.	œ
7007	25054.0	-15.6	-30.7	26.0

STATION ALTITUDE 3997.3G FEET MSL 1245 MDT ASCENSION NO. 12 JULY 84

UPPER AIR DATA 1940063132 S m R

GEODETIC COORDINATES 32-48034 LAT DEG 106-42307 LON DEG

١.

REFRACTION INDEX SPEED KNOTS DATA DIRECTION DEGREES(TN) EIND 0 SOUND SPEED GM/CUBIC SMETER TABLE 14 REL! HUM. DEWPOINT CENTIGRADE TEMPERATURE AIR Degrees MILLIBARS PRESSURE 132 GEOMETAIC Altitude Msl feet

.000296 .000281 .000281 .000282 .000277 .000253 .000253 .000253 .000248 .000243 .000235 .000227 1.000214 .000196 1.000188 1.000184 1.000180 1.000152 1.000146 1.000142 1.000138 .000136 .000209 .000196 .000168 .000160 .000206 .000191 .000155 .000154 .000265 82.6 89.2 95.6 95.6 102.2 15.2 19.5 24.7 27.1 26.5 21.0 33.3 1006.9 10006.9 976.9 976.9 976.9 956.9 956.9 956.9 956.9 956.9 956.9 956.9 956.9 956.9 956.9 956.9 956.9 956.9 748.0 736.5 725.2 713.8 702.2 1177 122.7 -6.3 -9.0 -9.0 -10.7 8888860.2 8888860.1 888660.1 88860.1 88960.1 88960.1 88960.1 88960.1 88960.1 88960.1 8 3997.3 4500.0 5500.0 6000.0 6500.0 7500.0 8000.0 8500.0 9000.0 10000.0 11000.0 12000.0 12500.0 13500.0 14000.0 15000.0 16500.0 17000.0 17500.0 18000.0 18500.0 19500.0 20000.0 20500.0 21000.0

GEODETIC COORDINATES 32-48034 LAT DEG 106-42307 LON DEG		INDER	REFRACT 10N	1.000131	1.000126	1.000123	1
GEODETIC 32.4 106.4		TA SPEED	KNOTS				
		MIND DATA	DEGREES(TN) KNOTS				
2 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	Cont'd	SPEED OF	KNOTS	628.0	561.4 626.9	2-929	** 670
UPPEK AIR DATA 1940060132 S m R	TABLE 14 Cont'd	REL'HUM. DENSITY SPEED OF	METER	570.7	561.4	551.5	241.0
5		REL HUM.	F F F F F F F F F F F F F F F F F F F	28' 6	27:6	26.8	26. 1
r #SL		TEMPERATURE	AIR DEWPOINT DEGREES CENTIGRADE	->7.8	-29.0	-29.8	-30.6
7.30 FEE 1 1245 MDT		TEMPI	AIR DEGREES	-11.4	-14.3	-14.9	-15.5
TITUDE 399	75L - 0N	PRESSURE	MILLIBARS	1.25.7	417.3	0.604	6.00%
STATION ALTITUDE 3997.30 FEET MSL 12 JULY 84	ASCENSION	GEOMETRIC	ALTITUDE MSL FEET	0 00 310	2.000.0	24500.0	25000.0

STATION ALTITUDE 3997.30 FEET MSL 12 JULY 84 122 ASCENSION NO. 132

MANDATORY LEVELS 1940060132 S m r

GEODETIC COORDINATES 32,48034 LAT DEG 106,423G7 LON DEG

> S M N TABLE 15

PRESSURE GEOPOTENTIAL	OPOTENTIAL	1689	ERATURE	REL.HUM.	. WIND DATA	NTA SPEED
MILLIBARS	FEET	AT R DEG: IEES	DEG: WEES CENTIGRADE		DEGREES (TN)	KNOTS
	•	í	•	747		3.8
0°00°0	2002	20.17			•	10.2
800.0	6735.	0 ° 2	10.	• • • •		0
750.0	8551.	1 6	0.0	65.		, A . C
700.0	10458.	1.1.2	7.5	.77		4.0
650.0	12470.	6.	0.	• ;		
0.009	14606.	0	1	. 78		42.4
\$50.0	16898.	6	ຍ. ຄ.	• • • • • • • • • • • • • • • • • • •		12.6
500.0	19376.	0	-14.5	•		, v.
450.0	22068.		-22.0	• • • •		
0.00%	25012.	-1: :-0	-30.7	• 0 >		

	SIGNIFICAN
STATION ALTITUDE 3989.00 FEET MSL	194
12 JULY 84 1400 MDT	BILLA
NO. 374	
	L - C - F

DATA		
SIGNIFICANT LEVEL	1940020374	WHITE SANDS

GEODETIC COORDINATES 32,40043 LAT DEG 106,37033 LON DEG

TABLE 16

PRESSURE	EOMETR		RATUR	ELOH
	ALTITUDE	1 R	DEWPOIN	PERCENT
MILLIBARS	SL FEE		EN 7 1 G	
79.	989.	ω.	7	<u>.</u>
73.	167.	۲.	•	ò
50.	968.	•	5	2
12.	286.	۳.	•	m
59.	204.	å	•	ċ
00	0456.	;	•	8
84.	1054.		•	Š
47.	2590.	8.9	•	ċ
29.	3350.	•	•	1
17.	3871.	•	•	,
93.	4935.	٠	ň	m
575.7	15726.0	٥.	-3.2	74.0
45.	7137.		3	•
36.	7556.	ň		2
23.	8234.	<u>ج</u>	•	\$
18.	8444.	٠	œ	- :
9	9405.	•	÷	,
. 76	9669.	\$	÷	
86.	0088.	•	19.	7
73.	0793.	۲.	16.	7
65.	1230.	8	÷	'n
57.	1711.	ċ	13.	~
47.	2226.	•	ň	•
36.	2860.	٠	17.	6
34.	2999.		20.	٠.
54.	3578.	٠	å	٠,
18.	3904.	7.	26.	•
16.	4078.	14:	ċ	•
=	4340.	•	30.	į
00	5054.	16.	m	<u>.</u>

UPPER AIR DATA

ATIONA	LT1TUDE 398	89.00 FEE	EET MSE	-	19400233	3 7 2			COORDI
SCENSION	NO. 374	400 100	<u> </u>		H 40 31 1 H				LON DE
					TABLE 17				
<u>o:</u>	PRESSURE	TEM	ATURE	REL' HUM.	NSITY	E E D	3	4	INDEX
ALTITUDE MSL FEET	MILLIBARS	AIR Degrees	DEMPOINT CENTIGRADE	E R.	M/CUB METER	SOUND	DIRECTION DEGREES(TN)	SPEED KNOTS	OF REFRACTION
080	70,	-		-	0.3	73.	200	•	.00031
4000	6.84.9	23.6	17.7	69.50	1022.6	674.1	330.2	0.9	1.000315
500.	63.	•	m		97.	76.	43.		.00028
.000	.67	٥.	2.	÷	82.	75.	33.	•	.00028
200.	34.	,	•	ĕ	69	74.	-	•	.0000
.000	26.	5	0	ñ	56.	73.	14.		.00026
500.	35.	2.	2.6	ň	43.	71.	-	ċ	00056
000	91.	÷	•	Š	31.	70.	25.	,	• 00055
500.	76.	6	•	Z	9.	68.	27.	0	• 00055
000	94.	æ	•	ö	08.	67.	27.		.00024
500.	51.		•	č	96	65.	92		• 0000
000	37.	٠.	٠	ě	65.	63	25.	•	.00024
500	54.	٠	•	å	74.	-	54.	•	.00023
000	1:	۲,	•	3	63.	60	54.	,	.00023
2000	80 ·	•	٠	å.	25	80 .	92	•	.00023
000	91		•	;	41.	9	27.	٠,	
500.	73.	•	•	ň	82	Š.		<u>.</u>	77000.
000		•	•	÷	9	54.	÷.	2	12000.
000	• > !	•	٠		•	2	• • •	•	12000
		•	•	7	• • •	- 0		• •	
		•	٠,	7	- 0	200	<u> </u>	٠	
	• • •	•	7.7-	5 6			• œ	•	
		•	•	٠,		7 2			00018
5500		•	; ~	i č	7 2	. 4			00018
000	9		, ~	òò	23.	45	12.		.00018
6500.	50	;		ě	13.	43.	15.		.00018
.0007	48.		m	ň	. 70	41.			.00018
7500	38.	×	•	è	93.	40.	21.		.00017
8000	27.	~		ž	80.	40	21.	ċ	.0001
8500.	17.	ς.	-8-2	ò	67.	40.	<u>ې</u>	ċ	.00016
0006	07.	š	10.	7	58.	38.	18.		.00016
9500	98.	÷	Ξ.	š	6.6	37.	ċ	ċ	.00015
0000	e (X)	•	-17.2	ň	38.	36.	01.	•	.00015
0203	79.	7	17.	ž	26.	36.		•	.00014
1000	66	۲.	16.	ċ	15.	35.	Š		.00014
1500.	60.	ċ	14.	è	90	33.	7		.00014
2002	51.	10.	73	ż	98.	31.	÷		.00014
2500	43.	:	5	,	88.	30.	ň		.00014
3000.	34.	12.	~	ŏ	78.	29.	=	•	.00013

GEODETIC COORDINATES 32.40043 LAT DEG 106.37033 LON DEG	ATA INDEX Speed of Knots Refraction	1.000134 1.000126 1.000123
	F WIND DATA DIRECTION SPEI DEGREES(TN) KNOT	
ATA 5 Cont'd	SPEED OF Sound Knots	570.3 628.2 560.9 627.2 551.0 626.5 542.6 625.0
UPPER AIR DATA 1940020374 WHITE SANDS TABLE 17 CONT'd	REL'HUM. DENSITY SPEED OF Perient Gm/cubic sound Meter knots	570.3 560.9 551.0 542.6
•	REL! HUM. Per; ent	55: 9 29: 6 23: 4 21: 2
- - - - -	RATURE Dewpoint Entigrade	-20.3 -28.0 -31.0 -33.0
9.00 FEF 1400 MD	TEMPE Alr Degrees C	-14.1
STATION ALTITUDE 3969.00 FEFT MS. 12 JULY 84 ASCENSION NO. 374	PRESSURE MILLIBARS	425.7 417.3 409.0 400.9
STATION ALTITUDE 3 12 JULY 84 ASCENSION NO. 374	GEOMETRIC PRESSURE ALTITUDE MSL FEET MILLIBARS	23500.0 24000.0 24500.0 25000.0

3989.00 FEET MSL	7
STATION ALTITUDE	12 JULY 84 ASCENSION NO. 374

MANDATORY LEVELS 1940320374 White Sands

WHITE SANDS
TABLE 18

9 E

GEODETIC COORDINATES 32,40043 LAT DEG 106,37033 LON DEG

PRESSURE GEOPOTENTIAL TEMPERATURE REL.HUM. WIND DATA
A: R DEMPOINT PERCENT DIRECTION SPEED
MILLIBARS FEET DEG: EES CENTIGRADE
BSO.0 4965. 2:01 12.5 43. 27.8 111.9
800.0 6707. 2:01 9.4 45. 123.6 11.9
750.0 8532. 11.0 7.3 53. 126.4 17.1
750.0 10446. 1.2 5.5 68. 126.4 17.1
600.0 14610. 11.2 5.5 68. 126.4 17.1
600.0 14610. 11.0 1.2 63. 108.1 13.1
650.0 19378. -11.0 -3.2 63. 118.1 9.6
450.0 22068. -11.0 -13.2 84. 97.6 5.6
400.0 25012. -11.0 -33.2 21.

30 FEET MSL	445 MDT	
ALTITUDE 3997.	1445 N	_
STATION ALTI		ASCENSION NO.
STA	15	ASC

DATA	
1 LEVEL 060133	19
16N1F1CANT 194000 S M R	TABLE

GEODETIC COORDINATES 32,48034 LAT DEG 106,42307 LON DEG

TUDE	1445 MIT	•

ON NO.	133	1445 MD	⊢		E E			106.	48034 LAT DEG 42307 LON DEG
					TABLE 20				
PRES	SURE	TEMPE	RATURE	REL HUM.	DENSITY		AU ONIN	1 A 5 D C C	INDEX
M1111	BARS	DEGREES C	ENTIG		METER) Z	S C	KNOTS	
~	•	•	~	ň	005.	679.	50.	•	.00029
^	•	6	•	ř	05	679.	6	•	•2000•
4	•		÷	å	96	677.	33.	•	.00027
4	•	\$	•	;	85.	674.	21.	•	.00026
~	•	3.		8	74.	672.	Ξ.	•	.00026
82(0.0	21.8	7.8	4210	963.4	670	104.9	7.1	1.000263
0	•	•	•	š	51.	699	ċ	•	• 0005
4	•	ċ		ã	38.	667.	66	ċ	.00025
~	•	7.		ŏ	26.	666.	03.	ċ	•00052
ø	•	÷	٠	m	14.	.799	7:	÷	.00024
~	•	۶.	•	Ģ	02.	663.	16.	~	.00024
73	•	•	•	ŏ	90.	661.	20.	,	00024
~	•	۲,	•	;	79.	659.	22.	4.	.00023
•	•	ċ	•	67.8	68.	657.	24.	5	00023
0	•	٠	٠	=	57.	656.	28.	ň	.00023
Œ	•	•	3.7	ň	45.	654.	÷	•	2200
~		•	•	754 9	32.	653.	35.	:	.00022
9	٠		•	ä	20.	655.	34.	.	.00021
•	•	•	•	ò	08.	651.	31.	٠	00021
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24	•	3.		à	03.	641.	œ	•	.00017
m	•	÷	ċ	ò	95.	639.	36.	•	.00016
25	•	-4.7	12.	÷	8.	638.	• 9	•	.00016
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0	•	è	17.	=	60.	636.	46.	•	.00015
67	•	•	18.	ሯ	49.	635.	37.	•	.00015
00	•	7.	18.	=	38.	634.	54.	•	.00015
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•	•	÷	18.	۲	18.	635.	7.	ċ	.00014
4.5	•	† 0	8.	ሯ	980	631.	12.	•	.00014
57		-11.5	-25.9	29. 0	98.	630.	4.	•	0013
77	•	12.	28.	;	88	629	11		. 00013
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GEODETIC COORDINATES 32.48034 LAT DEG 106.42307 LON DEG	INDEX OF Refraction	1.000129 1.000127 1.000125
GEODETI 32. 106.	TA SPEED KNOTS	9.0
	WIND DATA DIRECTION SPEED DEGREES(TN) KNOTS	105.0
Sara Cont'd	SPEED OF Sound Knots	568.4 628.0 559.3 626.8 551.1 625.1
UPPER AIR DATA 1940060133 5 M R TABLE 20 Cont'd	REL'HUM, DENSITY SPEED OF Perient Gm/cubic sound Meter Knots	\$68.4 559.3 551.1
3 1-	REL'HUM. Perient	18°6 18°5 19°3
1 #st)T	PRESSURE TEMPERATURE AIR DEMPOINT MILLIBARS DEGREES CENTIGRADE	133.1
3997,30 FEET MSL 1445 MDT	TEMP AIR DEGREES	-13.4 -14.4 -15.8
TITUDE 399 NO. 133	PRESSURE MILLIBARS	424.0 415.6 407.3
STATION ALTITUDE : 12 JULY 84 ASCENSION NO. 13	GEOMETRIC PRESSURE ALTITUDE MSL FEET MILLIBARS	23500.0 24000.0 24500.0

STATION ALTITUDE 3997.30 FEET MSL 12 JULY 84 ASCENSION NO. 133 1445 MDT

MANDATORY LEVELS 1940060133 S m R

GEODETIC COORDINATES 32.48034 LAT DEG 106.42307 LON DEG

ATAB BATA PF1 . HUM. 21 TABLE TEMPERATURE PRESSURE GEOPOTENTIAL M11118A

	GEOPOTENTIAL		PERALORE.	KEL . HOH.		<u> </u>
			DEWPOINT	PERCENT		SPEED
BARS	FEET	DEG: EES	DEG: EES CENTIGRADE		DEGREES(TN) KN	KNOTS
850.0		5. ∴6	80	34.	121.8	5.2
800.0		19	80.80	.04	99.2	8.6
750.0		1:1	6.5	57.	116.9	13.4
700.0		٠.	4.3	71.	127.4	13.1
650.0			2.0	80.	132.1	10.8
0.009		0 • 1	-2.2	79.	107.4	9.6
550.0		æ: -	-7.3	71.	125.5	0.6
500.0		6.1.	-18.5	39.	143.3	9.3
450.0		-11.5	-26.0	29.	114.0	8.8
400.0	24907.	-11:0	-34.5	20.		

